

In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1-6. (Cancelled)

7. (Currently Amended) A method for regulating fuel metabolism in a plant, comprising, contacting the plant with a UCP inhibitor to decrease the activity of UCP in the plant cell wall or plasma membrane or chloroplast with respect to UCP activity levels prior to decreasing the UCP activity, wherein the UCP inhibitor is a non-omega-3, -6 fatty acid, and wherein the decrease in activity of regulating UCP expression in the a plant cell wall or plasma membrane or chloroplast regulates to regulate fuel metabolism of the plant.

8-37. (Cancelled)

38. (Currently Amended) A method for producing a nutritionally enhanced plant, comprising: contacting the plant with a UCP inhibitor to decrease decreasing the expression or activity of UCP in the plant cell wall or plasma membrane or chloroplast with respect to UCP expression or activity levels prior to decreasing the UCP expression or activity, wherein the UCP inhibitor is a non-omega-3, -6 fatty acid, to produce a nutritionally enhanced plant.

39-48. (Cancelled)

49. (Currently Amended) A method for preventing an infection in a plant, comprising: contacting the plant with a UCP inhibitor to decrease decreasing the expression or activity of UCP in the plant cell wall or plasma membrane or chloroplast with respect to UCP expression or activity levels prior to decreasing the UCP expression or activity, in an amount to prevent infection in the plant, wherein the UCP inhibitor is a non-omega-3, -6 fatty acid.